Rev. 09-06-12

PISCES IV DIVE REPORT

Pilot: MAX CREMER Dive #: P4-339 Date: OCTOBER 29, 2017

Observer 1: BRENDAN ROARK

Affiliation: TEXAS A&M UNIVERSITY

Observer 2: MELISSA BETTERS

Affiliation: FLORIDA STATE UNIVERSITY

Purpose: (Research) Training Test

Other:

Special Equipment:

Cameras: MINI-ZEUS HD, ROS SD

Manipulators: ORION 7P, HYCO

Samplers/Sensors: 5 BIO BOXES

Support Vessel: R/V KAIMIKAI-O-KANALOA

Captain: MIKE MOSHLYK

Dive Location: WEST NORTHAMPTON SEAMOUNT

Latitude: 25° 22.914' N

Longitude: 172° 24.168' W

Time of Dive: 0823

Time of Surface: 1532

Time Submerged: 7:09

Time Thru Last Dive: 2307:24

Total Time to Dive: 2314:33

Dive Depth: 755m

Water Depth: 755m

Water Temperature: not recorded

Visibility: VERY GOOD, 20+m

Dive Narrative: CORAL HABITAT SURVEY IN PROTECTED MONUMENT WATERS. 0905 753m land on the bottom in a flat, sandy area. On a starboard list of the sub, there is an alarm on the upper water sensor of the lower battery pod. Decide to monitor and continue with the mission. 0911 A function test of the Orion manipulator is successful. 0915 move NNW to 600m through very stark, barren carbonate sand and rubble fields devoid of macrofauna. 0943 START transect #1 at 600m to SW from 25°23.249'N, 172°24.318'W. 0956 END transect #1 at 25°23.090'N, 172°24.626'W, 600m depth. 1002 contour W for about 5 minutes. 1012 601m START transect #2 to SW at 600m from 25°23.050'N, 172°24.735'W. The terrain is still very homogenous, alternating sand and rubble fields without any significant macrofauna. 1030 603m END transect #2 at 25°23.148'N, 172°25.097'W. 1034 contour W for about 5 minutes. 1047 601m making observations on a PAROKOZAR which apparently also had difficulties finding a suitable decoration in this extremely barren environment. Strangely, the traversed areas seem quite pristine and not fished out or impacted by trawling. 1048 START transect #3....

→ OVER →

Pilot's Signature: Date: 11-5-17

Operations Director: Terry Kerby Date: 11-8-17

PY-339

... at 600m to W from this location, which is at 25°23.241'N, 172°25.147'W.

1106 602m END transect #3 at 25°23.451'N, 172°25.385'W. Collect samples of CHRYSOGORGIA, and a PRIMNOID.

1120 moving upslope NE toward the 400m contour.

1148 398m START transect #4 at 400m to E Gr from 25°23.601'N, 172°25.157'W.

1206 403m END transect #4 at 25°23.388'N, 172°24.874'W.
Still traveling through barren, smooth carbonate slopes with very little macro fauna to be seen.

1209 contour at 400m for about 5 minutes.

1225 408m START transect #5 at 400m in a strong westerly current from 25°23.358 Gr'N, 172°24.772'W.

1252 403m END transect #5 at 25°23.467'N, 172°24.470'W.

1255 Contour at 400m to E for about 5 minutes.

1305 401m START transect #6 at 400m to E, with a strong southerly current, from 25°23.532'N, 172°24.396'W.

1327 406m END transect #6 at 25°23.758'N, 172°24.209'W.

1333 collect a small, NARELLA-like coral sample.

1336 move downslope toward the 450m contour.

1357 478m collect a small, white, wiry coral at 25°23.607'N, 172°24.193'W.

1407 450m still traveling through clean swept carbonate expanses, almost devoid of macro fauna.

1410 Decide to move upslope to NW, and finally locate several corallids.

1435 350m collect H. LAUUNSIA at 25°23.650'N, 172°24.345'W.

1438 Continue upslope NW.

1457 327m collect several samples of H. LAUUNSIA at 25°23.670'N, 172°24.357'W.

1500 Leaving the bottom from 327m.
Normal recovery.